

For Immediate Release



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Laird Thermal Systems Adds New Models to Tunnel Series Thermoelectric Cooler Assembly Product Line

Laird's space-saving thermoelectric cooler assemblies offer compact cooling performance for analytical and medical instrumentation...

November 7, 2017 – Laird Thermal Systems has expanded its thermoelectric cooler assembly product offering to include a higher capacity range for critical medical equipment. Previously, the Tunnel Series thermoelectric cooler assemblies offered cooling for capacities up to 39 watts. The new boosted Tunnel Series now offers cooling capacities exceeding 100 watts to support a wider range of cooling applications. Available in standard and custom configurations, the boosted Tunnel Series thermoelectric cooler assemblies offer a compact form factor that fits inside analytical and medical instrumentation with tight space constraints.

Laird's Tunnel Series use either air-to-air or direct-to-air heat transfer mechanisms designed with optimized thermoelectric coolers for high efficiency and brand names fans for low noise and improved reliability. Additional design features include improved sealing to prevent moisture intrusion when running in dew point conditions and reduced number of airflow paths required to operate more efficiently compared to traditional impingement flow thermoelectric cooler assemblies.

Depending on the cooling capacity requirements, the thermoelectric cooler assemblies can utilize one or more thermoelectric coolers. In addition, when combined with an advanced SR-54 Series temperature controller, the assembly offers temperature control to within +/- 1 °C. The SR-54 temperature controller also provides monitoring and alarm functionality, including identification of a problematic fan, thermoelectric cooler, over-temperature thermostat and temperature sensor failure — all of which are critical to maximizing medical equipment uptime. The controller requires minimal programming and can be easily adhered to a thermoelectric cooler assembly or system enclosure. The controller also lowers operational noise, as fan speeds can be lowered once the specified temperature has been reached.

“Our thermal management systems are used to provide temperature stability and condensation protection. The advantages of thermoelectric cooler assemblies over other types of technologies are precise temperature control, compactness, faster temperature ramp rates, better efficiency and lower noise,” said Anders Kottenauer, Senior Vice President of Laird's Thermal Systems Business. “With extensive temperature control experience, a diverse product portfolio, and a global footprint, Laird's new boosted Tunnel Series thermoelectric cooler assemblies meet the



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stringent temperature control requirements and mean time before failure demands of sensitive medical equipment.”

More information on the boosted Tunnel Series thermoelectric cooler assembly can be found by visiting

<https://www.lairdthermal.com/products/product-series/tunnel-series>

More information on the SR-54 programmable controller can be found by visiting

<https://www.lairdthermal.com/products/product-series/bi-directional-thermostatic-controllers>

About Laird Thermal Systems

Laird Thermal Systems develops thermal management solutions for demanding applications across global medical, industrial, transportation and telecommunications markets. We manufacture one of the most diverse product portfolios in the industry ranging from active thermoelectric coolers and assemblies to temperature controllers and liquid cooling systems. Our engineers use advanced thermal modeling and management techniques to solve complex heat and temperature control problems. By offering a broad range of design, prototyping and in-house testing capabilities, we partner closely with our customers across the entire product development lifecycle to reduce risk and accelerate their time-to-market. Our global manufacturing and support resources help customers maximize productivity, uptime, performance and product quality. Laird Thermal Systems is the optimum choice for standard or custom thermal solutions. Learn more by visiting www.lairdthermal.com

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